

AMENDMENTS TO THE CLAIMS

1-9. (Cancelled)

10. (Currently amended) Analysis equipment for determining ~~a concentration a~~
chemistry of an organic component and a caustic component of a reusable organic caustic
solution, the analysis equipment comprising: ~~that has been utilized for at least one cycle of~~
~~removing a ceramic coating from a metallic component at elevated temperatures and pressures in~~
~~an autoclave, comprising:~~

an autoclave containing a metallic component and the reusable organic caustic solution at
elevated temperature and pressure, the reusable organic caustic solution having been utilized for
at least one cycle of removing a ceramic coating from the metallic component;

a storage tank for storing the reusable organic caustic solution after removal from the
autoclave;

a filter for removing particles of the ceramic coating dispersed in the reusable organic
caustic solution from the reusable organic caustic solution;

a pump for circulating the reusable organic caustic solution from the tank through the
filter;

a pipe connecting the storage tank to the pump, the pump to the filter and the filter to the
storage tank; and

at least two sensors positioned between the filter and the storage tank to measure at least
two physical properties of the reusable organic caustic solution after removal of the particles
from the reusable organic caustic solution, the at least two physical properties selected from the
group consisting of electrical conductivity, opacity, refractive index, ~~spectroscopic transmission,~~
density, fluidity and the speed of sound in the solution.

11-25 (Cancelled)

26. (Previously presented) The analysis equipment of claim 10 further including a readout for monitoring the physical properties measured by the at least two sensors.

27. (Previously presented) The analysis equipment of claim 26 wherein the readout is an analogue readout.

28. (Previously presented) The analysis equipment of claim 26 wherein the readout is a digital readout.

29. (Previously presented) The analysis equipment of claim 26 further including a storage medium for storing the measured physical properties.

30. (Previously presented) The analysis equipment of claim 28 further including a computer connected to the digital readout for monitoring and storing the measured physical properties.

31. (Currently amended) Analysis equipment for determining a concentration of an organic component and a caustic component of a reusable organic caustic solution, the analysis equipment comprising: that has been utilized for at least one cycle of removing a ceramic coating from a metallic component at elevated temperatures and pressures in an autoclave, comprising: an autoclave containing a metallic component and the reusable organic caustic solution at elevated temperature and pressure, the reusable organic caustic solution having been utilized for at least one cycle of removing a ceramic coating from the metallic component;

a storage tank for storing the reusable organic caustic solution after removal from the autoclave;

a filter for removing particles of the ceramic coating dispersed in the reusable organic caustic solution from the reusable organic caustic solution;

a pump for circulating the reusable organic caustic solution from the tank through the filter;

a pipe connecting the storage tank to the pump, the pump to the filter and the filter to the storage tank; and

at least two sensors positioned between the filter and the storage tank, each [[one]] of the at least two sensors for measuring a different physical property of the reusable organic caustic solution after removal of the particles from the reusable organic caustic solution, the physical property associated with the concentration of at least one of the organic component and the caustic component of the reusable organic caustic solution, the physical property selected from the group consisting of electrical conductivity, opacity, refractive index, ~~spectroscopic transmission~~, density, fluidity and the speed of sound in the solution.

32. (Previously presented) The analysis equipment of claim 31 wherein one of the at least two sensors measure electrical conductivity.

33. (Previously presented) The analysis equipment of claim 31 wherein one of the at least two sensors measure opacity.

34. (Previously presented) The analysis equipment of claim 31 wherein one of the at least two sensors measure refractive index.

35. (Cancelled)

36. (Previously presented) The analysis equipment of claim 31 wherein one of the at least two sensors measure density.

37. (Previously presented) The analysis equipment of claim 31 wherein one of the at least two sensors measure fluidity.

38. (Previously presented) The analysis equipment of claim 31 wherein one of the at least two sensors measure the speed of sound.

39. (Previously presented) The analysis equipment of claim 31 further including a readout for monitoring the physical properties measured by one of the at least two sensors.

40. (Previously presented) The analysis equipment of claim 39 wherein the readout is an analogue readout.

41. (Previously presented) The analysis equipment of claim 39 wherein the readout is a digital readout.

42. (Previously presented) The analysis equipment of claim 39 further including a storage medium for storing the physical properties measured by one of the at least two sensors.

43. (Previously presented) The analysis equipment of claim 41 further including a computer connected to the digital readout for monitoring and storing the physical properties measured by one of the at least two sensors.